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L6: Entry 2 of 4

File: USPT

Feb 23, 1999

DOCUMENT-IDENTIFIER: US 5874226 A

TITLE: In situ immunodetection of antigens

Brief Summary Paragraph Right (5):

Another known method of immunodetection takes advantage of the immuno-PCR (Polymerase Chain Reaction) methodology (2). The PCR method is similar to the Cantor method up to the incubation with biotinylated DNA, however, instead of using multiple rounds of streptavidin and biotinylated DNA incubation, the DNA/biotin/streptavidin/antibody complex is washed out with a low pH or high salt buffer that releases the antibody. The resulting wash solution is then used to carry out a PCR reaction with suitable primers with appropriate controls. At least in theory, the enormous amplification capability and specificity of PCR can be utilized to detect a single antigen molecule.

Detailed Description Paragraph Right (11):

Other amplification technologies are also applicable, including two steps, 3 steps, PAP, and APAAP methods.